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INTELLECTUAL PROPERTY LAW DEPT. P.O. BOX 218 YORKTOWN HEIGHTS, NY 10598			ENGLAND, DAVID E	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/735,321	AZAGURY ET AL.		
		Examiner	Art Unit		
		DAVID E. ENGLAND	2443		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) 又	Responsive to communication(s) filed on 10 Ma	arch 2010			
•	· · · · · · · · · · · · · · · · · · ·	action is non-final.			
3)□	,—		secution as to the merits is		
J)الــا	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
	closed in accordance with the practice under L	x parte Quayle, 1900 C.D. 11, 40	0.0.210.		
Dispositi	on of Claims				
4)🛛	Claim(s) 38 and 39 is/are pending in the application	ation.			
·	4a) Of the above claim(s) is/are withdraw				
	Claim(s) is/are allowed.				
	Claim(s) <u>38 and 39</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction and/or	election requirement			
0)	are subject to restriction and/or	election requirement.			
Applicati	on Papers				
9)□	The specification is objected to by the Examine	r.			
-	The drawing(s) filed on is/are: a) acce		Examiner.		
,	Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·			
	Replacement drawing sheet(s) including the correcti				
11)	The oath or declaration is objected to by the Ex		• •		
' ' / 🗀	The bath of declaration is objected to by the Ex-	anniner. Note the attached Office	Action of form F 10-132.		
Priority ι	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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DETAILED ACTION

1. Claims 38 and 39 are presented for examination.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claim 38 is provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-5, 8-11, 16-21, 39-42 and 44 of copending Application No. 12/062211's amended claims dated 03/10/2010. Although the conflicting claims are not identical, they are not patentably distinct from each other because Applicant attempts to overcome the double patenting rejection by changing emulation processor with emulation "device" in 12/062211. It is obvious that the device has a processor which could be interpreted as having all the functionality of the copending case that is still a processor.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

The subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter, as follows:

Application 10/735321.

Claim 38. A computer system, comprising:

a local area network (LAN);

a plurality of computers without on-board user

interface controllers, each of the plurality of

computer being coupled to the LAN and being in

communication with each other over the LAN,

each of the plurality of computers comprising;

at least one central processing unit (CPU)

Application 12/062211

Claim 1. a local area network (LAN);

a plurality of input/output (I/O) devices being

coupled to the LAN; and

a plurality of computers without on-board user

interface controllers, each of the plurality of

computers being coupled to the LAN and being

in communication with each other and the

plurality of I/O devices over the LAN, each of

the plurality of computers comprising- a

system controller;

at least one central processing unit (CPU)

being coupled to the system controller; and a

plurality of on-board I/O device controllers,

consisting of:

a system controller being coupled to the at least

one CPU	at least one LAN interface being directly
	coupled to the LAN and connected to the
	system controller; and
	Also, Claims 8 and 17.
	2. The system according to claim 1, wherein
	the computers and the console are arranged to
	communicate over the LAN by transmitting
	Layer 2 data frames.
	Also, Claims 18, 25 and 32.
a console comprising a user input device and a	39 The system according to claim 1, wherein
user output device, said console being coupled to	the plurality of I/O devices comprise a console
communicate over the LAN such that the	having a keyboard, a mouse, and a video
console encapsulates an input received via the	monitor, the console being configured to
user input device into incoming data frames,	permit a user to access the plurality of
conveys the incoming data frames over the LAN	computers.
to each of the plurality of computers, de-	40. The system according to claim 39, wherein
encapsulates outgoing data frames received by	the console encapsulates inputs provided by the
the console from each of the plurality of	user via one of the keyboard and the mouse
computers over the LAN into an output for	into the incoming data frames for transmission
display using the user output device	over the LAN to the plurality of computers.
	41. The system according to claim 39, wherein
a plurality of input/output (I/O) devices being	the console de-encapsulates outgoing data files

coupled to the LAN, the plurality of I/O devices	received from the plurality of computers for
comprising the user input device and the user	display to the user via the video monitor.
output device of the console, each of the	
plurality of computers being in communication	
with the plurality of I/O devices over the LAN	
wherein the plurality of computers and the	Claim 2, 18, 40, 42 and 44
console are arranged to communicate over the	
LAN by transmitting Layer 2 data frames	
wherein the plurality of computers and the	Claims 3, 19
console are arranged to convey the input and the	
output by tunneling over Layer 2 on the LAN	
wherein the plurality of computers are arranged	Claim 2, 18, 40, 42 and 44
to transmit the outgoing data frames over the	
LAN to the plurality of I/O devices,	
wherein each of the plurality of computers	Claim 1 (cont'). each of the plurality of
further comprises a plurality of on-board I/O	computers being coupled to the LAN and
device controllers, consisting of:	being in communication with each other
at least one LAN interface being directly	and the plurality of I/O devices over the
coupled to the LAN and connected to the system	LAN, each of the plurality of computers
controller	comprising: at least one CPU being coupled
	to the system controller;

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an emulation processor, said emulation processor being directly coupled to the system controller, the emulation device comprising:

I/O trap logic being directly coupled to the system controller, the I/O trap logic being configured to intercept and trap a plurality of outputs sent by the at least one CPU to the plurality of I/O devices, to pass a plurality of inputs received from a service processor of the emulation device to the at least one CPU via the system controller, and to emulate behavior of the plurality of I/O devices to the at least one CPU and the system controller; and the service processor being directly coupled to the I/O trap logic, the service processor being configured to receive the intercepted and trapped plurality of outputs from the I/O trap logic, to encapsulate the received plurality of outputs into the outgoing data frames, to transmit the outgoing data frames via the at least one LAN interface through the LAN for delivery to the

Claim 1 (cont') an emulation device being directly coupled to the system controller, the emulation device comprising:

I/O trap logic being directly coupled to the system controller, the I/O trap logic being configured to intercept and trap a plurality of outputs sent by the at least one CPU to the plurality of I/O devices, to pass a plurality of inputs received from a service processor of the emulation device to the at least one CPU via the system controller, and to emulate behavior of the plurality of I/O devices to the at least one CPU and the system controller; and

the service processor being directly coupled to the I/O trap logic, the service processor being configured to receive the intercepted and trapped plurality of outputs from the I/O trap logic, to encapsulate the received plurality of outputs into outgoing data frames, to transmit the outgoing data frames via the at least one LAN interface

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plurality of I/O devices, to receive the incoming	through the LAN for delivery to the
data frames via the at least one LAN interface	plurality of I/O devices, to receive
sent by the plurality of I/O devices through the	incoming data frames via the at least one
LAN, to de-encapsulate the received incoming	LAN interface sent by the plurality of I/O
data frames into the plurality of inputs, and to	devices through the LAN, to de-encapsulate
convey the plurality of inputs to the I/O trap	the received incoming data frames into the
logic for emulation to the at least one CPU via	plurality of inputs, and to convey the
the system controller	plurality of inputs to the I/O trap logic for
	emulation to the at least one CPU via the
	system controller
wherein the emulation processor is arranged to	Claims 4, 9, 10, 20, 42
encapsulate the plurality of outputs in any of	
Ethernet frames, Internet Protocol (IP) packets	
wherein the plurality of computers and the	Claims 11, 16, 21
console are arranged to encapsulate the input	
and output in any of Internet Protocol (IP)	
packets for transmission over the LAN and using	
an application-layer protocol	

Furthermore, there is no apparent reason why applicant would be prevented from presenting claims corresponding to those of the instant application in the other copending

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application. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP \$ 804.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 38 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dai (2005/0049848) in view of Autrey et al. (5774695), hereinafter Autrey.
- 6. Referencing claim 38, as closely interpreted by the Examiner, Dai teaches
- 7. a computer system, comprising:
- 8. a local area network (LAN), (e.g., \P 0027);
- 9. a plurality of computers without on-board user interface controllers, each of the plurality of computer being coupled to the LAN and being in communication with each other over the LAN, each of the plurality of computers comprising:
- 10. at least one central processing unit (CPU), (e.g., \P 0031 & Figures 1 3, The server is controlled through the network from another node.);
- 11. a system controller being coupled to the at least one CPU, (e.g., ¶ 0031),
- 12. a console comprising a user input device and a user output device, said console being coupled to communicate over the LAN such that the console encapsulates an input received via

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the user input device into incoming data frames, conveys the incoming data frames over the LAN to each of the plurality of computers, de-encapsulates outgoing data frames received by the console from each of the plurality of computers over the LAN into an output for display using the user output device, (e.g., ¶ 0029 & Figure 2 & ¶ 0041, "API", It is well known in the art the in order to communicate information in a computer network using the OSI model of communication, one must encapsulate and "de-encapsulate" packets and frames in order for the application level to use the received information or to send information to another device in a network or LAN.); and

- 13. a plurality of input/output (I/O) devices being coupled to the LAN, the plurality of I/O devices comprising the user input device and the user output device of the console, each of the plurality of computers being in communication with the plurality of I/O devices over the LAN, (e.g., ¶ 0029 & Figure 2),
- 14. wherein the plurality of computers and the console are arranged to communicate over the LAN by transmitting Layer 2 data frames, (e.g., ¶ 0029 VPN),
- 15. wherein the plurality of computers and the console are arranged to convey the input and the output by tunneling over Layer 2 on the LAN, (e.g., ¶ 0029 VPN),
- 16. wherein the plurality of computers are arranged to transmit the outgoing data frames over the LAN to the plurality of I/O devices, (e.g., \P 0031 & Figures 1 3, The server is controlled through the network from another node.),
- 17. wherein each of the plurality of computers further comprises a plurality of on-board I/O device controllers, consisting of:

- 18. at least one LAN interface being directly coupled to the LAN and connected to the system controller, (e.g., ¶ 0029 0032); and
- 19. an emulation processor, said emulation processor being directly coupled to the system controller, the emulation device comprising:
- 20. I/O trap logic being directly coupled to the system controller, the I/O trap logic being configured to intercept and trap a plurality of outputs sent by the at least one CPU to the plurality of I/O devices, to pass a plurality of inputs received from a service processor of the emulation device to the at least one CPU via the system controller, and to emulate behavior of the plurality of I/O devices to the at least one CPU and the system controller, (e.g., ¶ 0033 0035, 0054, It is understood that the "trapping" is merely memory/processor holding onto information so to perform a function of the invention on the data it is about to process.); and
- 21. the service processor being directly coupled to the I/O trap logic, the service processor being configured to receive the intercepted and trapped plurality of outputs from the I/O trap logic, to encapsulate the received plurality of outputs into the outgoing data frames, to transmit the outgoing data frames via the at least one LAN interface through the LAN for delivery to the plurality of I/O devices, to receive the incoming data frames via the at least one LAN interface sent by the plurality of I/O devices through the LAN, to de-encapsulate the received incoming data frames into the plurality of inputs, and to convey the plurality of inputs to the I/O trap logic for emulation to the at least one CPU via the system controller, (e.g., ¶ 0033 0035, 0054, It is understood that the "trapping" is merely memory/processor holding onto information so to perform a function of the invention on the data it is about to process. Furthermore, it is well known in the art the in order to communicate information in a computer network using the OSI

model of communication, one must encapsulate and "de-encapsulate" packets and frames in order for the application level to use the received information or to send information to another device in a network or LAN.),

- 22. wherein the emulation processor is arranged to encapsulate the plurality of outputs in any of Ethernet frames, Internet Protocol (IP) packets, (e.g., ¶ 0007),
- 23. but does not specifically teach wherein the plurality of computers and the console are arranged to encapsulate the input and output in any of Internet Protocol (IP) packets for transmission over the LAN and using an application-layer protocol,
- 24. wherein the emulation processor is arranged to encapsulate the plurality of outputs using an application-layer protocol.
- 25. Autrey teaches wherein the plurality of computers and the console are arranged to encapsulate the input and output in any of Internet Protocol (IP) packets for transmission over the LAN and using an application-layer protocol, (e.g., col. 2, lines 13 25 & col. 8, lines 3 24s);
- 26. wherein the emulation processor is arranged to encapsulate the I/O commands using an application-layer protocol, (e.g., col. 2, lines 13 25 & col. 8, lines 3 24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Autrey with Dai because if one is to test and run a network using an emulation, then one would need to test all layers of the OSI model so a user know that the complete network topology is working correctly and not just one or two layers.

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27. Referencing the newly amended claim 39, as closely interpreted by the Examiner Dai

teaches all that is similarly stated above herein claim 39. Furthermore, Dai and Autrey teach

basic computer systems that would have a non-volatile memory that holds basic input/output

system (BIOS) commands used by each of the plurality of computers during an initial stage of

boot-up of each of the plurality of computers, the non-volatile memory being connected to the

service processor and to the system controller via the emulation processor; and

28. a console for sending inputs to and receiving outputs from the computers via the LAN,

the console comprising:

29. a keyboard and a mouse for sending inputs; and

a video display and an audio output for receiving outputs, wherein the plurality of peripheral

devices comprises the console. It is well known by one of ordinary skill in the art at the time the

invention was made that desk top computer utilize BIOS functions to start their computer and

keyboards, mouse and video and audio outputs are part of everyday desktop computing systems

and would have been within the ability of one of ordinary skill in the art to use a basic computer

in a LAN network to communicate with others on the network.

Response to Arguments

30. Applicant's arguments with respect to claims 39 have been considered but are moot in

view of the new ground(s) of rejection.

31. Applicant's arguments filed 03/10/2010 have been fully considered but they are not

persuasive with regards to claim 38.

32. In the Remarks, Applicant argues in substance that the copending Application No. 12/062211 claims 1-37 have different scope than this application.

- 33. As to this Remark, Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.
- 34. **In the Remarks**, Applicant argues in substance that Dai and Autrey does not teach the limitations of claims 38 and 39.
- 35. As to this remark, Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

Conclusion

36. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DAVID E. ENGLAND whose telephone number is (571)272-

3912. The examiner can normally be reached on Mon-Thur, 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tonia Dollinger can be reached on 571-272-4170. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David E. England Primary Examiner

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/David E. England/

Primary Examiner, Art Unit 2443